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<b>INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION</b> (use as many sheets as necessary)					
				Application Number	09/589,285
				Filing Date	June 8, 2000
				First Named Inventor	YU et al.,
				Group Art Unit	1646
				Examiner Name	Prasad, S.
Sheet	1	of	4	Attorney Docket Number	PF343P3C4

**U.S. PATENT DOCUMENTS**

Examiner Initials	Cite No. <sup>1</sup>	U.S. Patent Document Number	Kind Code <sup>2</sup> (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
SKL	A1	08/984,396		SmithKline Beecham	NA	Priority Document of EP 869180
	A2	60/033,601		Schering	NA	Priority Document of WO 98/27114
	A3	60/041,797		SmithKline Beecham	NA	Priority Document of EP 869180
	A4	60/048,776		Regeneron	NA	Priority Document of 98/55620 & 98/55621
	A5	60/058,786		Biogen	NA	Priority Document of 99/12964
	A6	60/066,386		Regeneron	NA	Priority Document of 98/55620 & 98/55621
	A7	60/066,577		Eli Lilly	NA	Priority Document of EP 921194
	A8	60/068,959		Chiron	NA	Priority Document of WO 99/33980
	A9	60/096,173		Eli Lilly	NA	Priority Document of EP 921194
	A10	60/106,976		U.S. Government - DHHS	NA	Priority Document of WO 00/26244
	A11	60/117,169		Biogen	NA	Priority Document of WO 00/43032
↓	A12	60/143,228		Biogen	NA	Priority Document of WO 00/43032

**FOREIGN PATENT DOCUMENTS**

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SKL	A13	EP 869180	A1	SmithKline Beecham	07-10-1998		
	A14	EP 921194	A2	Eli Lilly	06-09-1999		
	A15	EP 98302526		SmithKline Beecham		Priority Document of EP 869180	
	A16	EP 98309632		Eli Lilly		Priority Document of EP 921194	
	A17	WO 01/40466	A2	Genentech	06-07-2001	Pages 1-135 and Figures 23 and 24	
	A18	WO 00/26244	A2	U.S. Government - DHHS	05-11-2000		
	A19	WO 00/39295	A1	Glaxo	07-06-2000		
	A20	WO 00/40716	A2	ZymoGenetics	07-13-2000		
	A21	WO 00/43032	A2	Biogen	07-27-2000		
	A22	WO 00/47740	A2	Amgen, Inc.	08-17-2000		
	A23	WO 00/45836	A1	Res. Dev. Foundation	08-10-2000		
↓	A24	WO 00/60079	A2	Chiron Corporation	10-12-2000		
	A25	WO 00/67034	A1	Immunex Corporation	11-09-2000		

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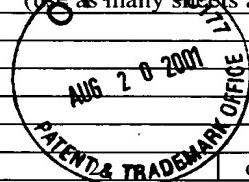
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**INFORMATION DISCLOSURE STATEMENT  
IN AN APPLICATION**

(use as many sheets as necessary)



Sheet

of

4

Application Number	09/589,285
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Sel	A26	WO	00/68378	A1	National Jewish Medical and Research Center	11-16-2000		
	A27	WO	00/77256	A1	Human Genome Sciences	12-21-2000		
	A28	WO	97/33902	A1	Human Genome Sciences	09-18-1997		
	A29	WO	98/27114	A2	Schering	06-25-1998		
	A30	WO	98/55620	A1	Regeneron	12-10-1998		
	A31	WO	98/55621	A1	Regeneron	12-10-1998		
	A32	WO	99/11791	A1	Univ. of Washington	03-11-1999		
	A33	WO	99/12964	A2	Biogen	03-18-1999		
	A34	WO	99/33980	A2	Chiron	07-08-1999		

**OTHER REFERENCES - NON PATENT LITERATURE DOCUMENTS**

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Sel	A35	FARRAH ET AL., GenBank Accession Number AF186114, 01-13-2000.	
	A36	FERGUSON ET AL., Human Molecular Genetics 6:1589-1594	
	A37	FUJIWARA ET AL., GenBank Accession Number D79690, 02-09-1996.	
	A38	HILLIER ET AL., GenBank Accession Number AA166695, 11-09-1997.	
	A39	HILLIER ET AL., GenBank Accession Number AA682496, 12-19-1997.	
	A40	HILLIER ET AL., GenBank Accession Number R16882, 04-14-1995.	
	A41	HILLIER ET AL., GenBank Accession Number R16934, 04-14-1995.	
	A42	HILLIER ET AL., GenBank Accession Number T87299, 03-17-1995.	
	A43	MARRA ET AL., GenBank Accession Number AA422749, 10-16-1997.	
	A44	MARRA ET AL., GenBank Accession Number AI182472, 10-08-1998.	
	A45	MYERS., GenBank Accession Number G30081, 10-05-1996.	
	A46	NCI-CGAP., GenBank Accession Number AA906714, 06-09-1998.	
	A47	ZHANG ET AL., GenBank Accession Number AF134715, 03-28-2000.	

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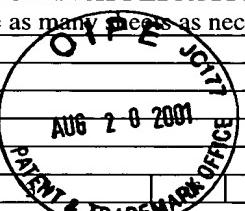
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		Examiner Name	Prasad, S.
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SPL	A48	BAUMGARTH, Nicole, Secreted IgM versus BlyS in germinal center formation, Nature Immunology, (2000) 1:179.	T <sup>6</sup>
	A49	CYSTER, JASON G., Marginal zone B cells may steal the limelight as the roles of Pyk-2 and BlyS begin to be elucidated. Pyk-2 deficiency leads to their loss whereas signaling via the BlyS receptor may augment their function, Nature Immunology, (2000) 1:9-10.	
	A50	DO ET AL., Attenuation of Apoptosis Underlies B Lymphocyte Stimulator Enhancement of Humoral Immune Response, J. Exp. Med., (2000) 192:953-964.	
	A51	GROSS ET AL.; TACI and BCMA are receptors for a TNF homologue implicated in B-cell autoimmune disease, Nature, (2000) 404:995-999.	
	A52	HATZOGLOU ET AL., TNF Receptor Family Member BCMA (B Cell Maturation) Associates with TNF Receptor-Associated Factor (TRAF) 1, TRAF2, TRAF3 and Activates NF-κB, Elk-1, c-Jun N-Terminal Kinase, and p38 Mitogen-Activated Protein Kinase, The Journal of Immunology, (2000) 165:1322-1330.	
	A53	HU ET AL., Characterization of TNFRSF19, a novel member of the tumor necrosis factor receptor superfamily, Genomics, 62:1023-107 (1999).	
	A54	KANAKARAJ ET AL., BlyS Binds to B Cells With High Affinity and Induces Activation of the Transcription Factors NF-κ and Elf-1, Cytokine (2001) 13:25-31.	
	A55	KHARE ET AL., Severe B Cell Hyperplasia and autoimmune disease in TALL-1 transgenic mice, PNAS, (2000) 97:3370-3375.	
	A56	LAABI ET AL., Lymphocyte Survival--Ignorance is BlyS, Science Magazine, (2001) 289:883.	
	A57	MACKAY ET AL., Mice Transgenic for BAFF Develop Lymphocytic Disorders Along with Autoimmune Manifestations, J. Exp. Med., (1999) 190:1697-1710.	
	A58	MARSTERS, ET AL., Interaction of the TNF homologues BlyS and APRIL with the TNF receptor homologues BCMA and TACI, Current Biology, (2000) 10:785-788.	
	A59	MOORE ET AL., BlyS: Member of the Tumor Necrosis Factor Family and B Lymphocyte Stimulator, Science, (1999) 285:260-263.	
	A60	NARDELLI ET AL., Synthesis and release of B-lymphocyte stimulator from myeloid cells, Immunobiology, (2001) 97:198-204.	
	A61	PARRY ET AL., Pharmacokinetics and Immunological Effects of Exogenously administered Recombinant Human B Lymphocyte Stimulator (BlyS) in Mice, The Journal of Pharmacology and Experimental Therapies, (2001) 296:396-404.	
	A62	SCHNEIDER ET AL., BAFF, a Novel Ligand of the Tumor Necrosis Factor Family, Stimulates B Cell Growth, J. Exp. Med., (1999) 189:1747-1756.	
	A63	SHU ET AL., TALL-1 is a novel member of the TNF Family that is Down-regulated by Mitogens, J. Leukoc. Biol., 65:680-683 (1999).	

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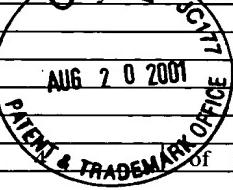
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ScL	A64	THOMPSON ET AL., BAFF Binds to the Tumor Necrosis Factor Receptor-like Molecule B Cell Maturation Antigen and Is Important for Maintaining the Peripheral B Cell Population, J. Exp. Med., (2000) 192:129-135.	T <sup>6</sup>
	A65	WU ET AL., Tumor Necrosis Factor (TNF) Receptor Superfamily Member TACI Is a High Affinity Receptor for TNF Family Members APRIL and BlyS, The Journal of Biological Chemistry (2000) 275:34578-34585.	
	A66	XIA ET AL., TACI Is a TRAF-interacting Receptor for TALL-1, a Tumor Necrosis Factor Family Member Involved in B Cell Regulation, J. Exp. Med., (2000) 192:137-143.	
	A67	YAN ET AL., Identification of a receptor for BlyS demonstrates a crucial role in humoral immunity, Nature Immunology, (2000) 1:37-41.	
	A68	YU ET AL., APRIL and TALL-1 and receptors BCMA and TACI: system for regulating humoral immunity, (2000) 1:252-256.	
	A69	ZHANG ET AL., Cutting Edge: A Role for B Lymphocyte Stimulator in Systemic Lupus Erythematosus, The Journal of Immunology, (2001) 166:6-10.	

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